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AMENDMENT

FHM  
7-27-  
2006

Application No. 10/645,349  
Reply to Office Action of June 30, 2006

### AMENDMENTS TO THE CLAIMS

Claims 1-33 are pending in the instant application. Claims 1-28 have been cancelled. Claims 29-33 have been allowed. New claims 34-44 have been added. The Applicants request reconsideration of the claims in view of the following amendments and remarks.

Listing of claims:

1. – 28. (Cancelled)

29. (previously presented) An array processing module comprising:

M signal processing chains wherein each of the M signal processing chains is configured to receive a replica of a received signal from a corresponding one of M physical antenna elements; and

an interpolation module coupled to the M signal processing chains, wherein the interpolation module is configured to generate N signal response values for the antenna array as a function of the M replicas of the received signal, wherein N is greater than M.

30. (Original) The array processing module of claim 29 including:

a weighting module coupled to the M signal processing chains wherein the weighting module is configured to calculate M physical weighting parameters as a